Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

GEOLOGICAL DATA INVENTORY FOLIO
GDIF 564

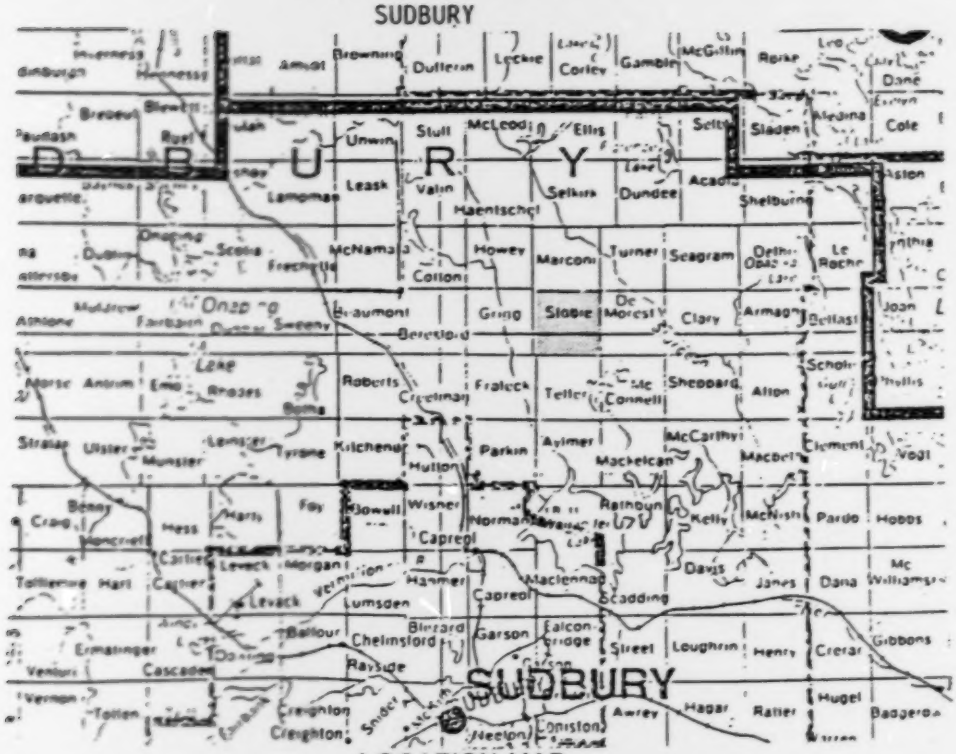
STOBIE TOWNSHIP

Sudbury Mining Division

41 P/2

Compiled by the staff of
the Resident Geologist's Office

SUDBURY



LOCATION MAP

CANADA ONTARIO
Mineral Development Agreement

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-04573/

Mining Claim Map Number G.4108

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Stobie Township, Geological Data Inventory Folio 564; compiled by the staff of the Resident Geologist's office, Sudbury.

Original Compilation by: Jerome, Lucille, January 1990

Date	Page(s) Revised	Revised by
*		

Date	Page(s) Revised	Revised by

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ACCOMPANYING MAPS (see map legends on outside back cover).

A. Files Index Map (s) ..... Map A-1

B. Exploration Data Map (s) ..... Map B-1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report

*

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	OGS/ODM General Index	YES	L.J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	YES	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	L.J.
6	ODM Industrial Mineral Reports	NO	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	N.A.	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	L.J.
9	Newspaper Clippings File	YES	L.J.
10	GSC Index to Publications	NO	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	L.J.
12	OGS Index Maps	YES	L.J.
13	Source Mineral Deposit Records (OGS)	YES	L.J.
14	Author - Subject Articles File	YES	L.J.
15	ODM/OGS Miscellaneous Papers	YES	L.J.
16	ODM Geological Circulars	NO	L.J.
17	OGS Study Series	NO	L.J.
18	ODM Preliminary Reports	NO	L.J.
19	ODM Bulletins	NO	L.J.
20	ODM/OGS Open File Reports	YES	L.J.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	YES	L.J.
22	OGS Aggregate Resources Inventory Papers	NO	L.J.
23	OGS Mineral Potential Maps	YES	L.J.
24	Drill Core Library Catalogue	N.A.	L.J.
25	Theses on File, Sudbury	YES	L.J.
26	Aerial Photographs on File, Sudbury	NO	L.J.
*			

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MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite	gl ..... Gravel	ra ..... Radioactive minerals	ADDITIONS
ank ..... Ankerite	gyp ..... Gypsum	RE ..... Rare Earths	
ap ..... Apatite	hem ..... Hematite	sd ..... Sand	
arg ..... Argentite	Fe ..... Iron	sgl ..... Sand and gravel	
As ..... Arsenic	IF ..... Iron Formation	ss ..... Sandstone	
asp ..... Arsenopyrite	jas ..... Jasper	scap ..... Scapolite	
asb ..... Asbestos	ky ..... Kyanite	shee ..... Scheelite	
ba ..... Barite	Pb ..... Lead	serp ..... Serpentine	
be ..... Beryl	lim ..... Limonite	sh ..... Shale	
Bi ..... Bismuth	Li ..... Lithium	sid ..... Siderite	
bn ..... Bornite	mgst ..... Magnesite	si ..... Silica	
Cd ..... Cadmium	mag ..... Magnetite	Ag ..... Silver	
calc ..... Calcite	mc ..... Malachite	sl ..... Slate	
carb ..... Carbonate	Mn ..... Manganese	sm ..... Smaltite	
cc ..... Chalcocite	mb ..... Marble	sod ..... Sodalite	
cp ..... Chalcopyrite	mar ..... Marcasite	spec ..... Specularite	
ch ..... Chert	ma ..... Marl	sp ..... Sphalerite	
clay ..... Clay	mi ..... Mica	spd ..... Spodumene	
Co ..... Cobalt	mo ..... Molybdenite	s ..... Sulphides	
cob ..... Cobaltite	Mo ..... Molybdenum	talc ..... Talc	
Cu ..... Copper	mon ..... Monazite	Te ..... Tellurium	
cor ..... Corundum	ne .... Nephelite (nepheline)	th ..... Thorite	
dol ..... Dolomite	Ni ..... Nickel	Th ..... Thorium	
ep ..... Epidote	Nb ..... Niobium	ti ..... Titanite	
fel ..... Feldspar	Pd ..... Palladium	Ti ..... Titanium	
fl ..... Fluorite (flurospar)	pent ..... Pentlandite	tour ..... Tourmaline	
fu. ..... Fuchsite	Pt ..... Platinum	W ..... Tungsten	
gn. ..... Galena	py ..... Pyrite	uran ..... Uraninite	
gt. ..... Garnet	pyl ..... Pyrochlore	▲ U ..... Uranium	*
goe ..... Goethite	po ..... Pyrrhotite	verm ..... Vermiculite	
Au ..... Gold	q ..... Quartz	Zn ..... Zinc	
gf ..... Graphite	qcv .. Quartz carbonate vein	zr ..... Zircon	

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES			Source Min. Dep. Record	References in OGS Min. Dep. Cir. and Indus. Mineral Rpts.	Additional References and/or Remarks
Map Ref. Letter	(see Data Map) Name(s)	Mineralization			
A	STOBIE TOWNSHIP OCCURRENCE	U	0174	MDC 9, p. 72, MDC 25, pp. 114-115	OFR 5033 GR100, pp. 3, 11, 32 with map 2238

STOBIE

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																		
									Airborne			Ground								
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Mag	EM	Rad	Mag	FM	Rad	IP	Self Potential	Resistivity	Other Data	or footnotes
1	Canadian Johns-Manville Co. Ltd. (Fraleck 0012)								67	67	67								
2	Canadian Nickel Co. Ltd. (Clary 0011)	79																	1
3	Pollock, J.A., Warren Explorations, Consolidated Professor (Stobie 0010-A1)				77														
4	Pollock, J.A., Warren Explorations, Consolidated Professor (Stobie 0010-B1)	77		77		77													
5	Macrae Mining Corp. Ltd. (Clary 0010-B1)								69										
6	Canadian Johns-Manville Co. Ltd., Fedosejevs, G. (Grigg 0013-C1)							72											

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																		
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Stripping Trenching or	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Airborne Mag	Airborne EM	Airborne Rad	Ground Mag	Ground EM	Ground Rad	Ground IP	Ground Self potential	Ground Resistivity	Other Data	or footnotes
7	Canadian Johns-Manville Co. Ltd. (Grigg 0012)	69																	

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY

Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
1	Pollock, Warren Expl. & Cons. Professor (Stobie 0010-A1)	GD1	1977	270	45	2.5'	326'	py, cp	U
2	Pollock, Warren Expl. & Cons. Professor (Stobie 0010-A1)	GD2	1977	West	45	2.5'	302'		U

STOBIE

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
1	1967: Lockwood Survey Corporation for Canadian Johns-Manville Co. Ltd.	a. Magnetic b. Electromagnetic c. Radiometric	100′ and 200′	N30E	1/4 mi.
5	1969: Canadian Aero Service Ltd. for Macrae Mining Corp. Ltd.	a. Magnetic	500′ and 250′	East	1/12 mi.

Map Site No.	GEOCHEMICAL SURVEY DATA		By	Reference(s)
	Type of survey	Analysis for		

Map Site No.	GEOCHRONOLOGY DATA — AGE DATING			
	Method	Material	Reference	Result

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist Office

(a) Aerial Photographs

(b) Photomosaics

(c) Satellite Imagery

TOPOGRAPHIC MAPS (selected)			
Scale	Year	Name and/or Number	By
1: 50,000	1975	Milnet Sheet, 41 I/15	EMR
1: 50,000	1975	Pilgrim Creek Sheet, 41 P/2	EMR
1: 100,000	1978	NOEGTS Data Base Map, Capreol, Map 5001, NOEGT Study 95, Capreol	OGS, Gartner, J.F.
1: 100,000	1978	NOEGTS Data Base Map, Maple Mountain, Map 5023, NOEGT Study 89	OGS, Gartner, J.F.

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	11/22/79		Cons. Professor arranges funds

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

CANADIAN AERO SERVICE LTD.
CANADIAN JOHNS-MANVILLE CO. LTD.
CANADIAN NICKEL CO. LTD.
CONSOLIDATED PROFESSOR MINES LTD.
FEDOSEJEVS, G.
FREDERICK LAKE
LOCKWOOD SURVEY CORPORATION
MACRAE MINING CORP. LTD.
POLLOCK, J.A.
PARADISE LAKE
STOBIE TOWNSHIP
WARREN EXPLORATIONS

Index Volume	Listing	Report Volume	Part	Page
1	Frederick Lake, Stobie Tp.,	N.O.		83
	Character of country near	N.O.		84
	Gold prospecting	N.O.		88
	Raspberries	N.O.		93
	Rocks	N.O.		100,102
	Trees	N.O.		92
4	Canadian Johns-Manville Co. Ltd. Capital; officers; operations	59	2	1
8	Frederick Lake Stobie Tp., Sudbury Dist.	GR100		17,20,21
8	Frederick Lake Fault Stobie Tp., Sudbury Dist.	GR100		29
8	Stobie & Grigg Tps., Sudbury Dist.			
	Geology of the area	GR100		
	Report & map 2238 on, 1972 by H.D. Meyn	MP22		57-58
	Summary of field work, 1968 by H.D. Meyn	GR100		32
	Uranium			

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
GSC	1965	Aeromagnetic Map, Milnet Sheet	Map 1512G	1"=1 mi.
GSC	1965	Aeromagnetic Map, Pilgrim Creek Sheet	Map 1513G	1"=1 mi.
Meyn, H. D.	1966	Capreol Sheet	ODM Map P. 367	1"=2 mi.
Hadley, D. G.	1968	The Sedimentology of the Huronian Lorrain Formation Ontario and Quebec, Canada Johns Hopkins University	Sudbury Theses File	
Robertson, J. A.	1968	Uranium and Thorium of Northern Ontario	ODM MRC 9	p. 92
Lindsey, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada	GSA Bull. 80	pp. 1685-1702
Meyn, H. D.	1969	Stobie Township	ODM Map P. 514	1"=1/4 mi.

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Meyn, H. D.	1969	Geology of Roberts, Creelman and Fraleck Townships	ODM OFR 5033	
McIlwaine, W. H., Meyn, H. D., Card, K. D.	1970	Operation Maple Mountain, Smoothwater Lake Area	ODM Map P. 584	1"=1 mi.
Palonen, P. A.	1971	Stratigraphy and Deformational Environment of the Mississagi Formation, Ontario M. Sc., University of Calgary	Sudbury Theses File	
Meyn, H. D.	1972	Grigg and Stobie Townships	ODMNA Map 2238	1"=1/2 mi.
Meyn, H. D.	1972	Geology of Grigg and Stobie Townships	ODMNA GR100	with colmap 2238
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet and Part of Ville-Marie Sheet	OGS Map P. 1514	1: 250,000
Long, D. G.	1978	Depositional Environments of a Thick Proterozoic Sandstone, the (Huronian) Mississagi Formation of Ontario, Canada	CJES Vol. 15	pp. 190-206

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Adlington, R.	1981	Stobie Township, Sudbury Data Series	OGS Map P. 2183	1"=1/4 mi.
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map, Sudbury-Onaping Lake Area	OGS Map P. 2482	1: 100,000
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of Gogama-Gowganda Area	OGS Map P. 2481	1: 100,000
Young, G. M.	1981	The Early Proterozoic Gowganda Formation, Ontario, Canada. Earth's Pre-Pleistocene Glacial Record	Cambridge University Press	pp. 807-812
Robertson, J. A.	1982	Uranium and Thorium Deposits of Ontario, East Central Sheet	OGS Map P. 2426	1"=16 mi.
Robertson, J. A., Gould, K. L.	1983	Uranium and Thorium Deposits of Northern Ontario	OGS MDC 25	pp. 114-115
Chandler, F. W.	1986	Sedimentology and Paleoclimatology of the Huronian (Early Aphebian) Lorrain and Gordon Lake Formations and their Bearing on Models for Sedimentary Copper Mineralization	GSC Paper 86-1A	pp. 121-132

Note #	NOTES
1	CANADIAN NICKEL CO. LTD. In 1979, Canadian Nickel Company Ltd. in a joint venture partnership with three other companies commenced an exploration program for uranium and gold mineralization at or near the base of the Huronian sequence in an area north of Lake Wanapitei. Reconnaissance geology and geophysics were done prior to drilling three deep boreholes in the program area. Other geophysical surveys such as radiometric, electromagnetic resistivity and spectrometric were performed on the drill core and on the property (Clary 0011). The same work is compiled in file McConnell 0010.

STORIE

ADDENDA

CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:

Resident Geologist's Office
Ministry of Northern Development & Mines
200 Brady Street, 6th floor
Sudbury, Ontario
P3A 5W2

(705) 675-4441

STOBIE

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 .... of text**

- ■ Reference number is always inside work area outlined. See listing in text pages.
- ☐ Small area of exploration data
- ■ File covers whole township or area
- ☐

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: See pages 3-1,2... of text

- ■ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter
- ☐ Mineral occurrence encountered in drilling, with reference letter
- ☐

DRILLHOLES: See pages 5-1,2... of text

- ■ Location of single drillhole, with reference number
- ☐ Location of group of closely spaced drillholes, with reference number
- ☐ Drillhole, exact location uncertain, with reference number
- ☐ Property with underground drillholes in this general area, with reference number
- ☐ Property with drillholes which have not been plotted on map, with reference number
- ☐ Reverse circulation drillhole; churn drilling, with reference number
- ☐

GEOCHEMICAL: See pages 7-1,2....of text

- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐

GEOPHYSICAL ANOMALIES

Airborne Surveys: See pages 6-1,2... of text

- ☐ Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
- ☐ Airborne radiometric anomaly

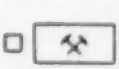
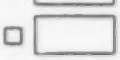
Ground Surveys

- ☐ Ground magnetic anomaly
- ☐ Ground electromagnetic anomaly (VL - Vertical loop, HL - Horizontal loop VLF - Very low freq., Turam, JEM - Crone Em - 16)
- ☐ Ground radiometric anomaly
- ☐ Induced polarization anomaly
- ☐ Self potential anomaly
- ☐ Audio-frequency magnetic anomaly (total intensity)
- ☐ Resistivity anomaly
- ☐ Gravity anomaly
- ☐

GEOCHRONOLOGICAL DATA: See page 8 of text

- ☐ Age dating material sampling site, with reference number
- ☐

MISCELLANEOUS DATA

- ■ Trenching, pit
- ☐ Adit
- ☐ Sand and/or gravel pit
- ☐
- ☐  Rock quarry
- ☐ Open pit
- ☐ 

MAPS
NOT
FILMED

CARTES
OMISES